HIGHLY IMPACT-RESISTANT STEEL PIPE AND METHOD FOR PRODUCING THE SAME

5

ABSTRACT OF THE DISCLOSURE

The present invention provides: a highly impact-10 resistant member having a round or square sectional shape, that is excellent in strength and toughness, does not undergo the deterioration of toughness in the vicinity of the welded portion, and a highly impactresistant steel pipe having a tensile strength TS of 15 1,700 MPa or more and a yield ratio YR of 72% or less, said yield ratio being the ratio of a 0.1%-proof stress YS to a tensile strength TS (YS/TS). The toughness of the welded portion of said steel pipe is enhanced by controlling the Si amount in the steel of said steel pipe 20 in the range from Mn/8 - 0.07 to Mn/8 + 0.07. Said steel contains, in mass, 0.19 to 0.35% C, 0.10 to 0.30% Si, 0.5 to 1.60% Mn, not more than 0.025% P, not more than 0.01% S, 0.010 to 0.050% Al, 2 to 35 ppm B and 0.005 to 0.05% Ti as indispensable components. Said steel pipe 25 according to the present invention comprises a steel wherein 95% or more of the microstructure of said steel is transformed into martensite by subjecting said steel pipe to induction heating and then water quenching at a cooling rate of 100°C or higher and the prior austenite 30 grain size number of said steel is #6 or more. present invention includes methods for producing said steel pipe.